

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Name of Applicant and Assignee:
Address of Applicant and Assignee:

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**REVOCATION AND SUBSTITUTION
OF POWER OF ATTORNEY UNDER 37 C.F.R. §1.36**

Dear Sir:

Pursuant to 37 C.F.R. §1.36, Sun Microsystems, Inc., the applicant and assignee of the patent applications listed on the attached APPENDIX A, revokes all previous powers of attorney in the patent applications listed on the attached APPENDIX A, hereby appoints the following attorneys and/or agents assigned to the Customer Number listed below to prosecute the patent applications listed on the attached APPENDIX A, and to transact all business in the U.S. Patent and Trademark Office connected therewith:

Customer Number 32615

32615
PATENT TRADEMARK OFFICE

Please direct all correspondence and telephone calls concerning the patent applications listed on the attached APPENDIX A to:

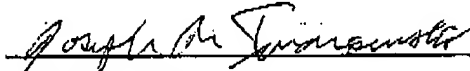
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Further, please change the attorney/docket number corresponding to the patent applications listed in APPENDIX A from the attorney/docket number on file to that indicated on APPENDIX A.

The undersigned (whose title is supplied below) is empowered to sign this certificate on behalf of the above-identified applicant.

The undersigned hereby declares that all statements made herein of the undersigned's own knowledge are true, that all statements made on information and belief are believed to be true, and further, that these statements are made with the knowledge that willful false statements, and the like so made, are punishable by fine or imprisonment, or both, under Section 1001, Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the sixteen patent applications listed on the attached APPENDIX A or any patents issuing thereon.

Signature:



Dated:

Dec. 20, 2006

Name:

Joseph A. Twarowski

Title:

Assistant General Counsel

Sun Microsystems, Inc.

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APPENDIX A

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1. Patent Application/Serial No.: 10/799,049
Title: GARBAGE-FIRST GARBAGE COLLECTION
Filed: 3/12/2004
Applicant: Sun Microsystems, Inc.
Reel/Frame No.: 015079/0946
Reference No: 33226/940001; SUN040074
2. Patent Application/Serial No.: 10/394,813
Title: ELISION OF WRITE BARRIERS FOR STORES WHOES VALUES ARE IN CLOSE PROXIMITY
Filed: 3/21/2003
Applicant: Sun Microsystems, Inc.
Reel/Frame No.: 013905/0661
Reference No: 33227/023001; P7479
3. Patent Application/Serial No.: 09/551,113
Title: CONCURRENT SHARED OBJECT IMPLEMENTED USING A LINKED-LIST WITH AMORTIZED NODE ALLOCATION
Filed: 4/18/2000
Applicant: Sun Microsystems, Inc.
Reference No: 33226/960000; P4665

4. **Patent Application/Serial No.:** 10/664,799
Title: BLINDED ENCRYPTION AND DECRYPTION
Filed: 9/18/2003
Applicant: Sun Microsystems, Inc.
Reference No: 33227/009001
5. **Patent Application/Serial No.:** 10/313,878
Patent No.: 7,143,124
Title: DETECTION OF DEAD REGIONS DURING INCREMENTAL COLLECTION
Filed: 12/6/2002
Applicant: Sun Microsystems, Inc.
Reel/Frame No.: 013559/0709
Reference No: 33226/977001; P8275
6. **Patent Application/Serial No.:** 09/547,288
Title: MAINTAINING A DOUBLE-ENDED QUEUE IN A CONTIGUOUS ARRAY WITH CONCURRENT NON-BLOCKING INSERT AND REMOVE OPERATIONS USING A DOUBLE COMPARE-AND-SWP PRIMITIVE
Filed: 4/11/2000
Applicant: Sun Microsystems, Inc.
Reel/Frame No.: 010712/0617
Reference No: 33226/959002; P4663

7. **Patent Application/Serial No.:** 10/861,704
Title: THREAD SUSPENSION SYSTEM AND METHOD
Filed: 6/4/2004
Applicant: Sun Microsystems, Inc.
Reference No: 33226/955002; P2927 C
8. **Patent Application/Serial No.:** 09/454,427
Title: DYNAMIC EMBEDDING OF LITERAL OBJECT DATA IN SUPPLIED INSTANCE OF INFORMATION OBJECT
Filed: 12/3/1999
Applicant: Sun Microsystems, Inc.
Reel/Frame No.: 010448/0577
Reference No: 33226/956001; P3916
9. **Patent Application/Serial No.:** 11/099,720
Title: SEQUENTIALLY PERFORMED COMPARE-AND-SWAP
Filed: 4/6/2005
Applicant: Sun Microsystems, Inc.
Reel/Frame No.: 016661/0899
Reference No: 33226/962002; P4667-US-DIV-1

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10. Patent Application/Serial No.: 09/710,218

Patent No.: 7,117,502

Title: LINKED-LIST IMPLEMENTATION OF
DATA STRUCTURE WITH
CONCURRENT NON-BLOCKING
INSERT AND REMOVE OPERATIONS

Filed: 11/10/2000

Applicant: Sun Microsystems, Inc.

Reel/Frame No.: 011305/0889

Reference No: 33226/963001; P4896

11. Patent Application/Serial No.: 10/996,508

Title: WORK-STEALING QUEUES FOR
PARALLEL GARBAGE COLLECTION

Filed: 11/23/2004

Applicant: Sun Microsystems, Inc.

Reel/Frame No.: 011270/0285

Reference No: 33226/964002; P4946C1

12. Patent Application/Serial No.: 60/204,184

Title: PARALLEL GARBAGE COLLECTION
FOR SHARED MEMORY
MULTIPROCESSORS

Filed: 5/15/2000

Applicant: Sun Microsystems, Inc.

Reference No: 33226/964000; P4948

13. Patent Application/Serial No.: 09/697,729

Patent No.: 6,823,351

**Title: WORK-STEALING QUEUES FOR
PARALLEL GARBAGE COLLECTION**

Filed: 10/26/2000

Applicant: Sun Microsystems, Inc.

Reel/Frame No.: 011270/0285

Reference No: 33226/964001; P4946

14. Patent Application/Serial No.: 09/893,256

Patent No.: 7,103,887

**Title: LOAD-BALANCING QUEUES
EMPLOYING LIFO/FIFO WORK
STEALING**

Filed: 6/27/2001

Applicant: Sun Microsystems, Inc.

Reel/Frame No.: 011943/0085

Reference No: 33226/966001; P5388

15. Patent Application/Serial No.: 10/166,874

**Title: PREFETCHING TECHNIQUES FOR
NETWORK INTERFACES**

Filed: 6/11/2002

Applicant: Sun Microsystems, Inc.

Reel/Frame No.: 013001/0641

Reference No: 33226/967001; P7322

16. Patent Application/Serial No.: 10/679,183

Title: DEFERRING AND COMBINING
WRITE BARRIERS FOR A GARBAGE-
COLLECTED HEAP

Filed: 10/3/2003

Applicant: Sun Microsystems, Inc.

Reel/Frame No.: 014590/0742

Reference No: 33226/971001; P7863

17. Patent Application/Serial No.: 10/653,828

Title: SHARED SYNCHRONIZED SKIP-LIST
DATA STRUCTURE AND
TECHNIQUE EMPLOYING
LINEARIZABLE OPERATIONS

Filed: 9/3/2003

Applicant: Sun Microsystems, Inc.

Reel/Frame No.: 014483/0341

Reference No: 33226/972001; P7982

18. Patent Application/Serial No.: 10/991,148

Title: USE OF MEMORY PROTECTION TO
IMPLEMENT REPLICATING
COLLECTION IN A INCREMENTAL,
COPYING GARBAGE COLLECTOR

Filed: 11/17/2004

Applicant: Sun Microsystems, Inc.

Reel/Frame No.: 016007/0616

Reference No: 33226/974001; P8226

19. Patent Application/Serial No.: 10/881,101

Title: USING CLASS PROPERTIES TO
DEGREGATE OBJECTS IN A
GENERATION MANAGED BY THE
TRAIN ALGORITHM

Filed: 6/30/2004

Applicant: Sun Microsystems, Inc.

Reel/Frame No.: 015539/0072

Reference No: 33226/975001; P8231

20. Patent Application/Serial No.: 11/021,287

Title: METHOD AND APPARATUS FOR
FORWARDING REFERENCES TO
OBJECTS CONCURRENTLY WITH
SPACE-INCREMENTAL GARBAGE
COLLECTION

Filed: 12/23/2004

Applicant: Sun Microsystems, Inc.

Reel/Frame No.: 015627/0335

Reference No: 33226/976001; P8274

21. Patent Application/Serial No.: 10/313,878

Patent No.: 7,143,124

Title: DETECTION OF DEAD REGIONS
DURING INCREMENTAL
COLLECTION

Filed: 12/6/2002

Applicant: Sun Microsystems, Inc.

Reel/Frame No.: 013559/0709

Reference No: 33226/977001; P8275

22. Patent Application/Serial No.: 10/930,483

Title: IMPROVED SCANNING OF
EVACUATED OBJECTS IN A
GENERATION MANAGED BY THE
TRAIN ALGORITHM

Filed: 8/31/2004

Applicant: Sun Microsystems, Inc.

Reel/Frame No.: 015782/0538

Reference No: 33226/978001; P8276

23. Patent Application/Serial No.: 10/391,405

Title: PARALLEL CACHING OF
INSERTIONS INTO REMEMBERED
SETS

Filed: 3/18/2003

Applicant: Sun Microsystems, Inc.

Reel/Frame No.: 013890/0128

Reference No: 33226/979001; P8303

24. Patent Application/Serial No.: 11/131,827

Title: METHOD AND APPARATUS FOR
CONCURRENTLY PROCESSING
REMEMBERED SETS IN A SPACE-
INCREMENTAL GARBAGE
COLLECTOR

Filed: 5/18/2005

Applicant: Sun Microsystems, Inc.

Reel/Frame No.: 016366/0209

Reference No: 33226/981001; P8317

25. Patent Application/Serial No.: 10/309,503

Patent No.: 7,136,887

Title: METHOD AND MECHANISM FOR
FINDING REFERENCES IN A CARD
IN TIME LINEAR IN THE SIZE OF
THE CARD IN A GARBAGE-
COLLECTED HEAP

Filed: 12/4/2002

Applicant: Sun Microsystems, Inc.

Reel/Frame No.: 013550/0405

Reference No: 33226/982001; P8318

26. Patent Application/Serial No.: 10/799,186

Title: EXPLOITING POPULAR OBJECTS TO
REDUCE MUTATOR OVERHEAD

Filed: 3/12/2004

Applicant: Sun Microsystems, Inc.

Reel/Frame No.: 015091/0736

Reference No: 33226/984001; SUN040081

27. Patent Application/Serial No.: 10/986,527

Title: EXPLOITING POPULAR OBJECTS TO
REDUCE MUTATOR OVERHEAD

Filed: 11/11/2004

Applicant: Sun Microsystems, Inc.

Reel/Frame No.: 015983/0321

Reference No: 33226/984002; SUN040081

28. Patent Application/Serial No.: 10/799,187

Title: CONCURRENT-MARKING-
INITIATION HEURISTIC

Filed: 3/12/2004

Applicant: Sun Microsystems, Inc.

Reel/Frame No.: 015095/0376

Reference No: 33226/983001; SUN040079

29. Patent Application/Serial No.: 10/986,401

Title: CONCURRENT-MARKING-
INITIATION HEURISTIC

Filed: 11/11/2004

Applicant: Sun Microsystems, Inc.

Reel/Frame No.: 016020/0320

Reference No: 33226/983002; SUN040079-CIP

30. Patent Application/Serial No.: 11/090,398

Title: METHOD AND APPARATUS FOR
SWITCHING BETWEEN PER-THREAD
AND PER-PROCESSOR RESOURCE
POOLS IN MULTI-THREADED
PROGRAMS

Filed: 3/25/2005

Applicant: Sun Microsystems, Inc.

Reel/Frame No.: 016300/0319

Reference No: 33226/987001; SUN040951

31. Patent Application/Serial No.: 11/215,510

Title: METHOD AND APPARATUS FOR
SELECTIVELY ELIMINATING WRITE
BARRIERS IN SNAPSHOT-AT-THE-
BEGINNING CONCURRENT-
MARKING GARBAGE COLLECTORS

Filed: 8/30/2005

Applicant: Sun Microsystems, Inc.

Reel/Frame No.: 016542/0156

Reference No: 33226/989001; SUN041094

32. Patent Application/Serial No.: 11/128,791

Title: METHOD AND APPARATUS FOR
REDUCING REMEMBERED SET
OVERHEAD IN A GENERATIONAL
GARBAGE COLLECTOR BY
CONSTRAINING COLLECTION SET
CHOICE

Filed: 5/13/2005

Applicant: Sun Microsystems, Inc.

Reel/Frame No.: 016336/0241

Reference No: 33226/990001; SUN041424

33. Patent Application/Serial No.: 11/021,260

Title: METHOD AND APPARATUS FOR
ISOLATING SELECTED HEAP
OBJECTS USING A FAULTING
ADDRESS TRAP

Filed: 12/23/2004

Applicant: Sun Microsystems, Inc.

Reel/Frame No.: 015627/0286

Reference No: 33226/991001; SUN041505

34. Patent Application/Serial No.: 11/091,611

Title: METHOD AND APPARATUS FOR
IMPROVING PARALLEL MARKING
GARBAGE COLLECTORS THAT USE
EXTERNAL BITMAPS

Filed: 3/28/2005

Applicant: Sun Microsystems, Inc.

Reel/Frame No.: 016082/0276

Reference No: 33226/992001; SUN050023

35. Patent Application/Serial No.: 11/091,032

Title: METHOD AND APPARATUS FOR
RECORDING MODIFIED REFERENCE
LOCATIONS IN GARBAGE-
COLLECTED HEAP MEMORY

Filed: 3/28/2005

Applicant: Sun Microsystems, Inc.

Reel/Frame No.: 016082/0191

Reference No: 33226/993001; SUN050025

36. Patent Application/Serial No.: 11/218,145

Title: METHOD AND APPARATUS FOR
DYNAMICALLY PRE-TENURING
OBJECTS IN A GENERATIONAL
GARBAGE COLLECTION SYSTEM

Filed: 9/1/2005

Applicant: Sun Microsystems, Inc.

Reel/Frame No.: 016542/0121

Reference No: 33226/994001; SUN050202

37. Patent Application/Serial No.: 11/218,179

Title: METHOD AND APPARATUS FOR
BYTE ALLOCATION ACCOUNTING
IN A SYSTEM HAVING A MULTI-
THREADED APPLICATION AND A
GENERATIONAL GARBAGE
COLLECTOR THAT DYNAMICALLY
PRE-TENURES OBJECTS

Filed: 9/1/2005

Applicant: Sun Microsystems, Inc.

Reel/Frame No.: 016542/0109

Reference No: 33226/995001; SUN050203

38. Patent Application/Serial No.: 11/474,599

Title: APPARATUS AND METHOD FOR
COORDINATED VIEWS OF
CLUSTERED DATA

Filed: 6/26/2006

Applicant: Sun Microsystems, Inc.

Reel/Frame No.: 017917/0010

Reference No: 33226/996001; SUN050482

39. Patent Application/Serial No.: 11/477,021

Title: METHOD AND APPARATUS FOR
SEARCHING AND RESOURCE
DISCOVERY IN A DISTRIBUTED
ENTERPRISE SYSTEM

Filed: 6/28/2006

Applicant: Sun Microsystems, Inc.

Reference No: 33226/997001; SUN050600

40. Patent Application/Serial No.: 11/413,641

Title: METHOD AND APPARATUS FOR
BROWSING SEARCH RESULTS VIA A
VIRTUAL FILE SYSTEM

Filed: 4/28/2006

Applicant: Sun Microsystems, Inc.

Reel/Frame No.: 017754/0711

Reference No: 33226/998001; SUN050633

41. Patent Application/Serial No.: 11/182,539

Title: METHOD AND APPARATUS FOR
GENERATING MEDIA PLAYLISTS BY
DEFINING PATHS THROUGH MEDIA
SIMILARITY SPACE

Filed: 7/15/2005

Applicant: Sun Microsystems, Inc.

Reel/Frame No.: 016366/0563

Reference No: 33226/999001; SUN050732

42. Patent Application/Serial No.: 10/800,363

Title: MIXING COPYING COLLECTION
AND CONCURRENT MARKING

Filed: 3/12/2004

Applicant: Sun Microsystems, Inc.

Reel/Frame No.: 015983/0314

Reference No: 33226/938000; SUN040073

43. Patent Application/Serial No.: 09/837,669

Patent No.: 7,017,160

Title: CONCURRENT SHARED OBJECT
IMPLEMENTED USING A LINKED-
LIST WITH AMORTIZED NODE
ALLOCATION

Filed: 4/18/2001

Applicant: Sun Microsystems, Inc.

Reel/Frame No.: 011734/0644

Reference No: 33226/960001; P4665-CIP-0

44. Patent Application/Serial No.: 11/384,627

Title: CONCURRENCY TECHNIQUE FOR
SHARED OBJECTS

Filed: 3/20/2006

Applicant: Sun Microsystems, Inc.

Reference No: 33226/960002; P4665US-CON-0